

FIG. 1

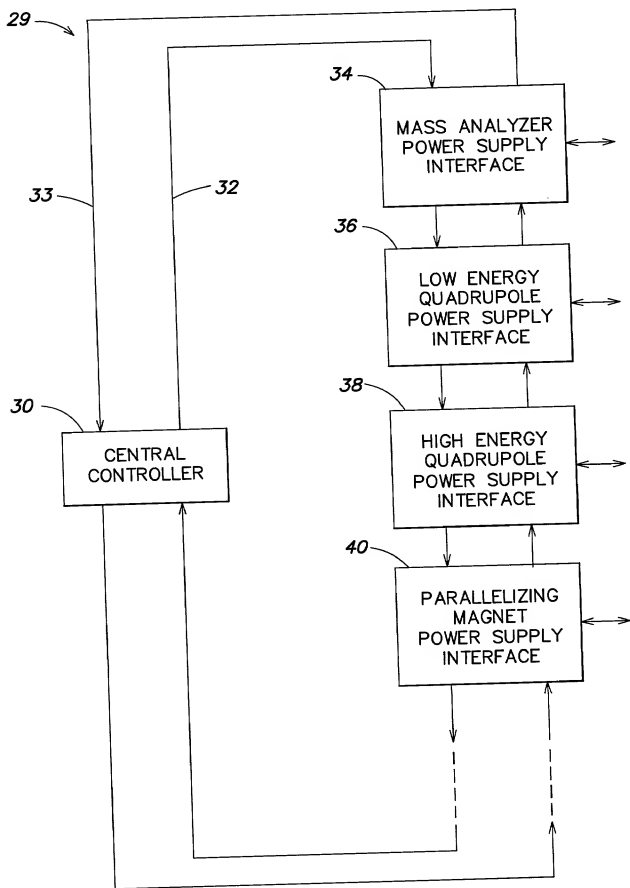


FIG. 2

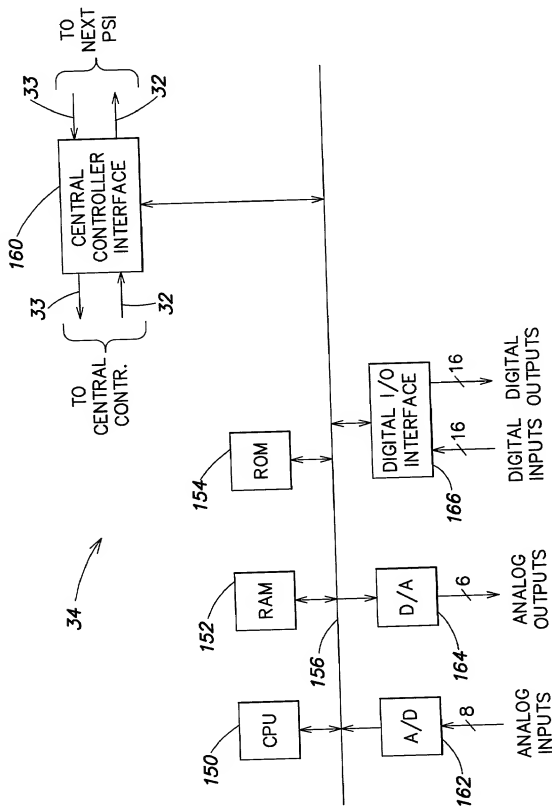


FIG. 3

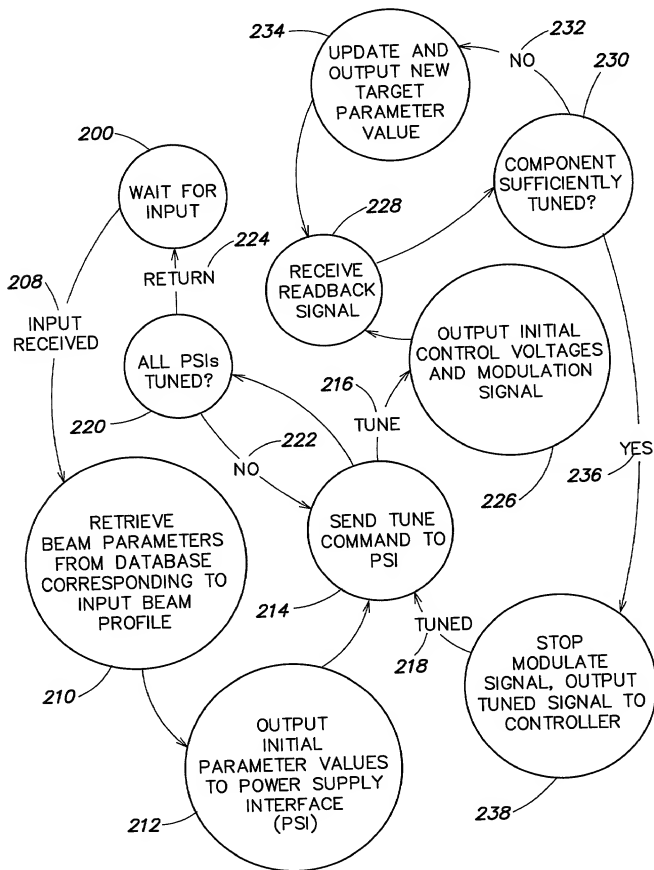


FIG. 4

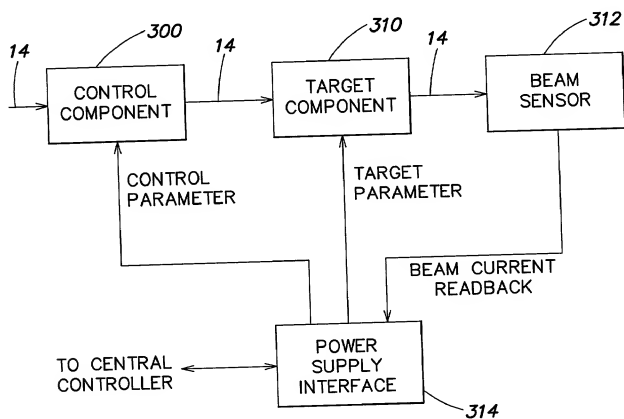


FIG. 5

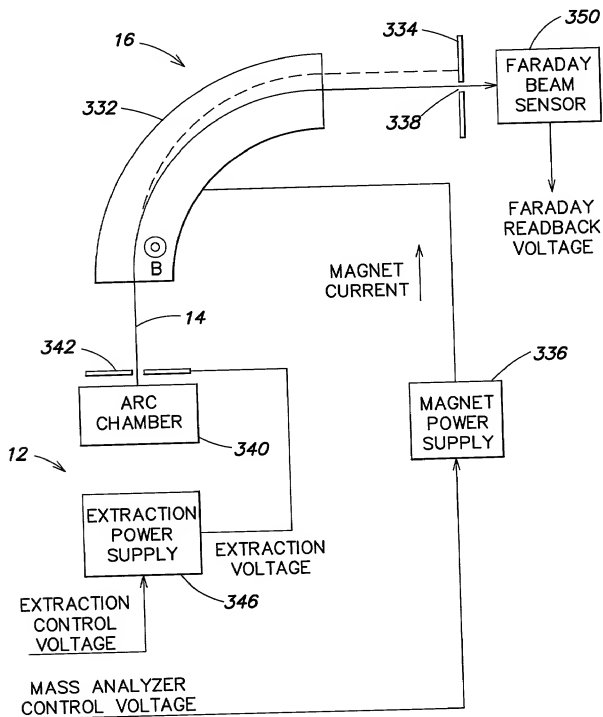


FIG. 6

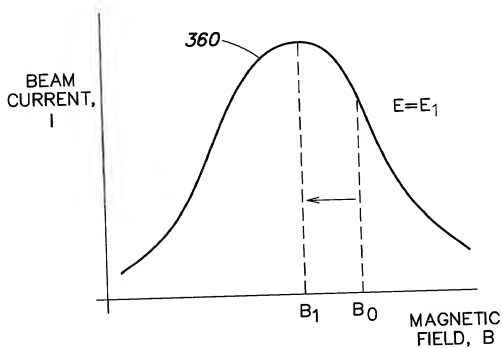


FIG. 7

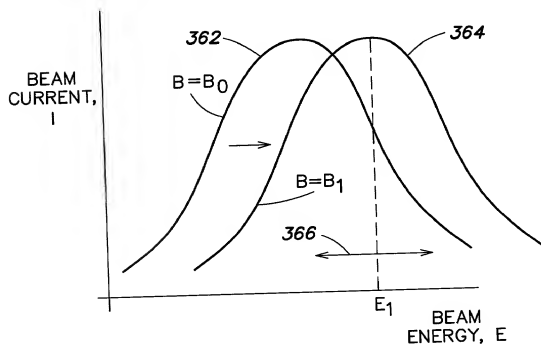


FIG. 8

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graph TD
    370[MODULATE CONTROL PARAMETER ABOUT DESIRED VALUE] --> 372[MEASURE BEAM CURRENT DOWNSTREAM OF TARGET COMPONENT]
    372 --> 374[ANALYZE BEAM CURRENT MEASUREMENTS]
    374 --> 376{TARGET PARAMETER SUFFICIENTLY CLOSE?}
    376 -- YES --> DONE[DONE]
    376 -- NO --> 378[DETERMINE TARGET PARAMETER ADJUSTMENT]
    378 --> 380[ADJUST TARGET PARAMETER]
    380 --> 370
```

FIG. 9

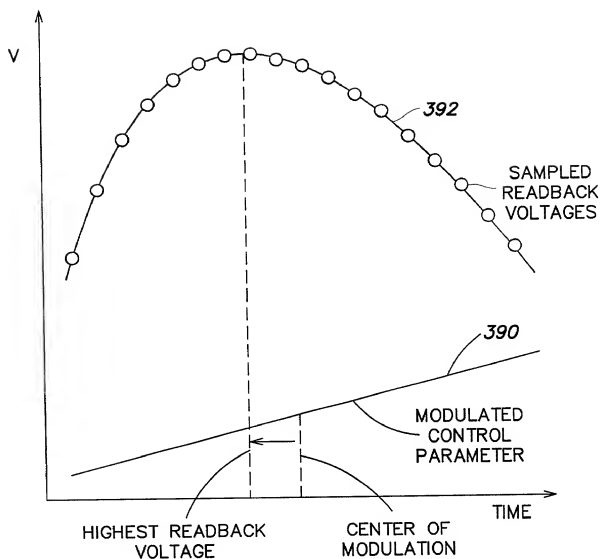


FIG. 10

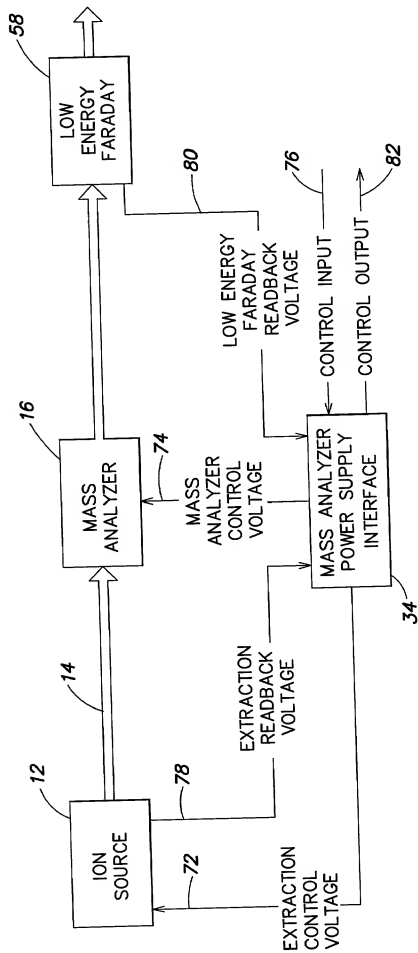


FIG. 11

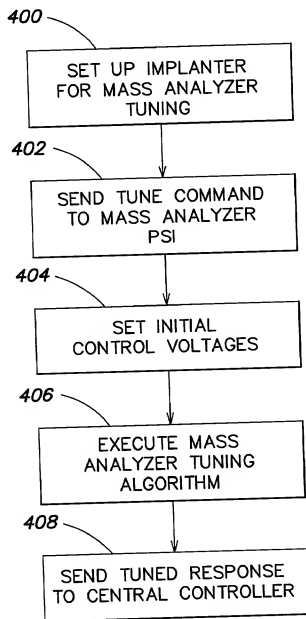


FIG. 12

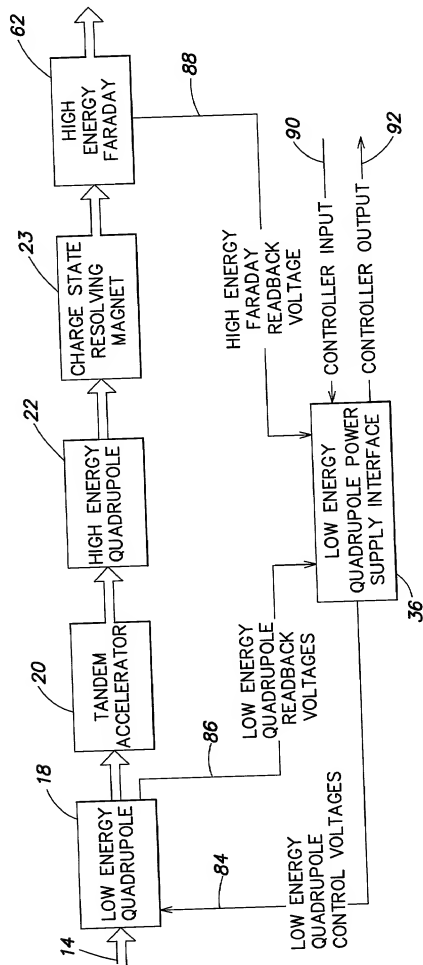


FIG. 13

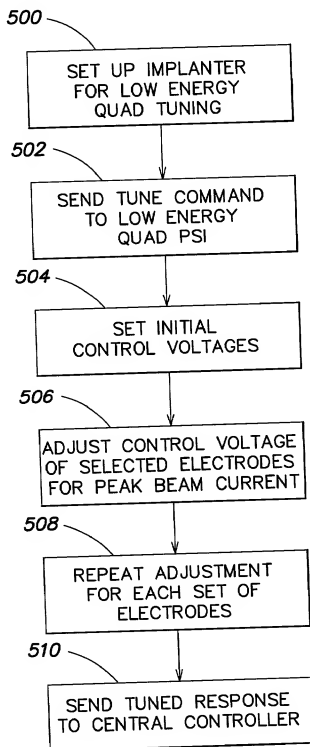


FIG. 14

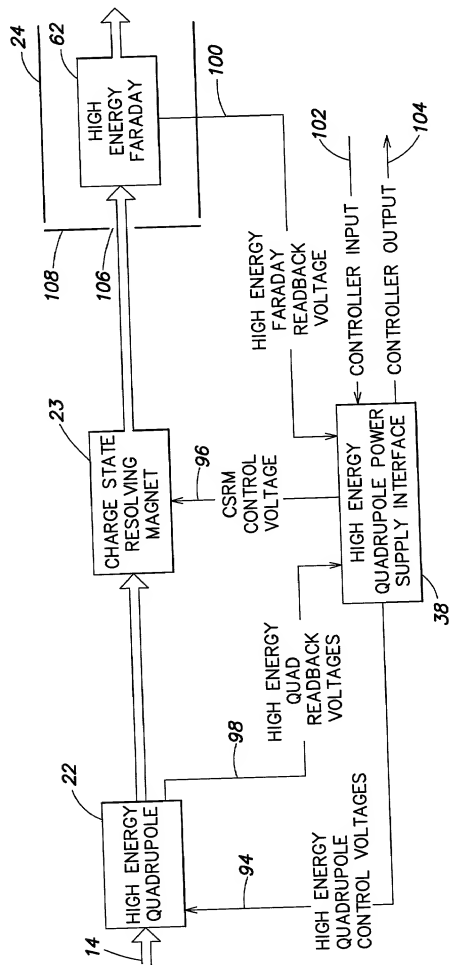


FIG. 15

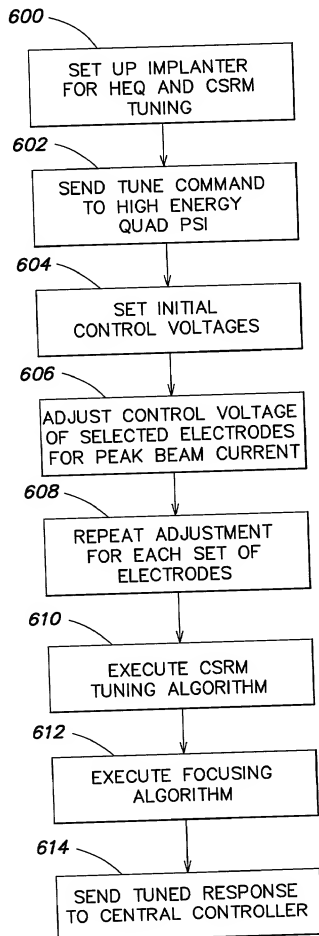


FIG. 16

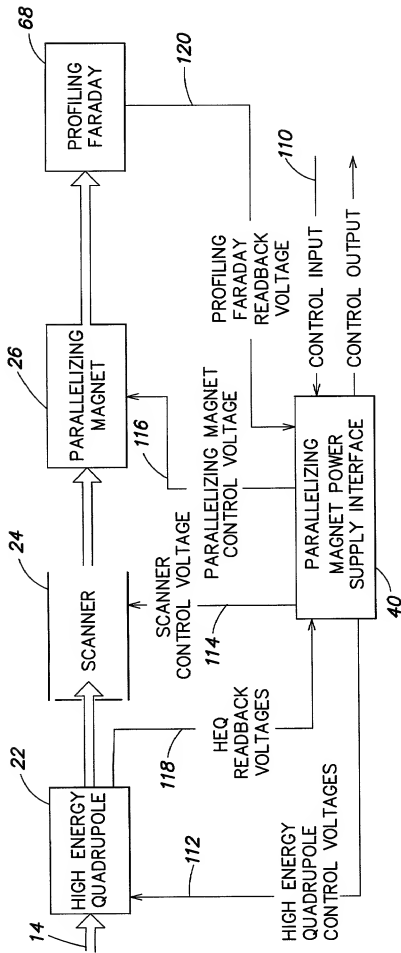


FIG. 17


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graph TD
    700[SET UP IMPLANTER  
FOR PARALLELIZING  
MAGNET TUNING] --> 702[SEND TUNE COMMAND  
TO PARALLELIZING  
MAGNET PSI]
    702 --> 704[SET INITIAL  
CONTROL VOLTAGES]
    704 --> 706[EXECUTE PARALLELIZING  
MAGNET TUNING  
ALGORITHM]
    706 --> 708[SEND TUNED RESPONSE  
TO CENTRAL CONTROLLER]

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FIG. 18

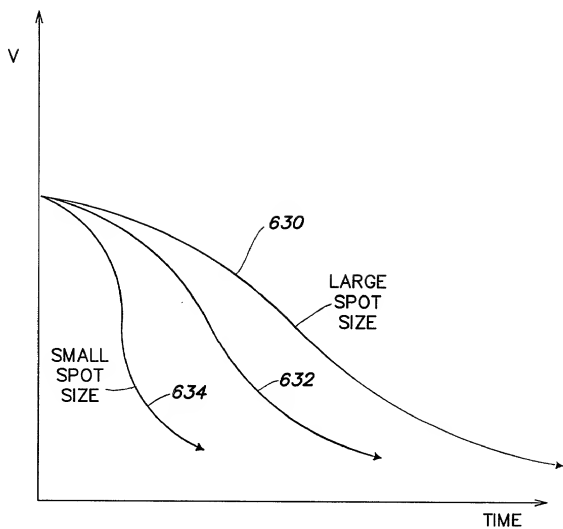


FIG. 19